

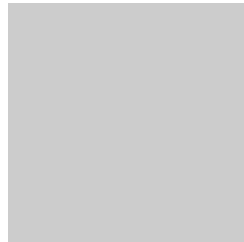
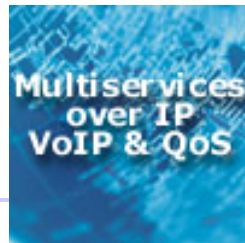
Hur Datakommunikation fungerar | 3G



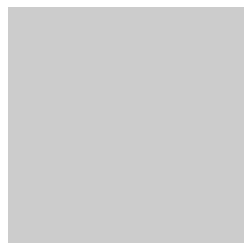
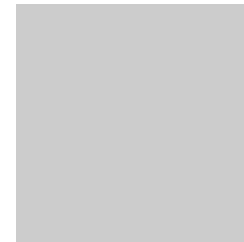
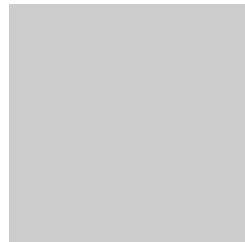
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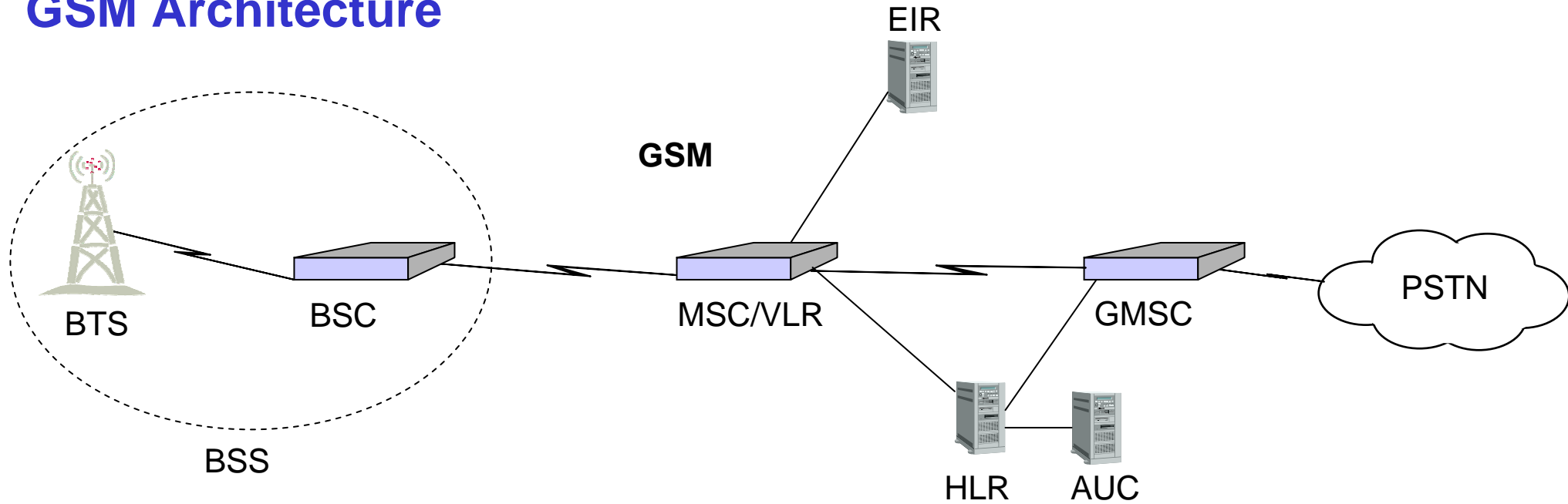


Everyday
solutions
using IP



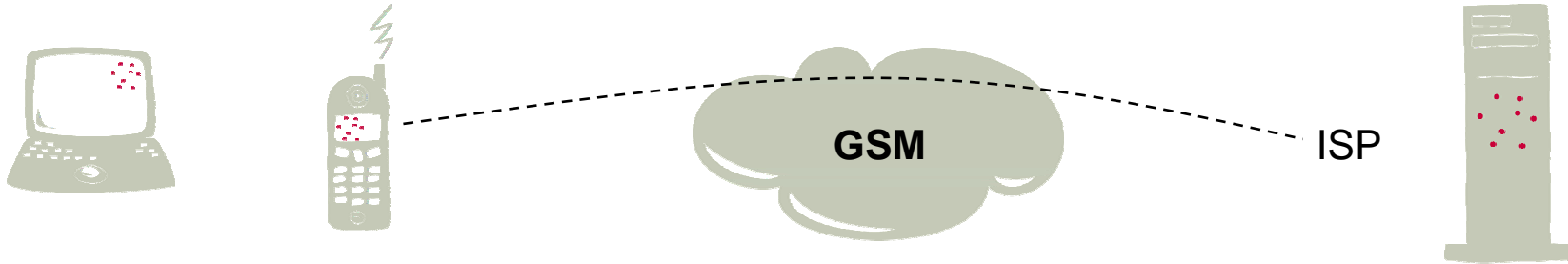
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GSM Architecture



AUC	Authentication Centre
BSC	Base Station Controller
BSS	Base Station System
BTS	Base Transceiver Station
EIR	Equipment Identity Register
GMSC	Gateway MSC
HLR	Home Location Register
MSC	Mobile Switching Centre
PSTN	Public Switched Telephone Network
VLR	Visitor Location Register

Data over GSM

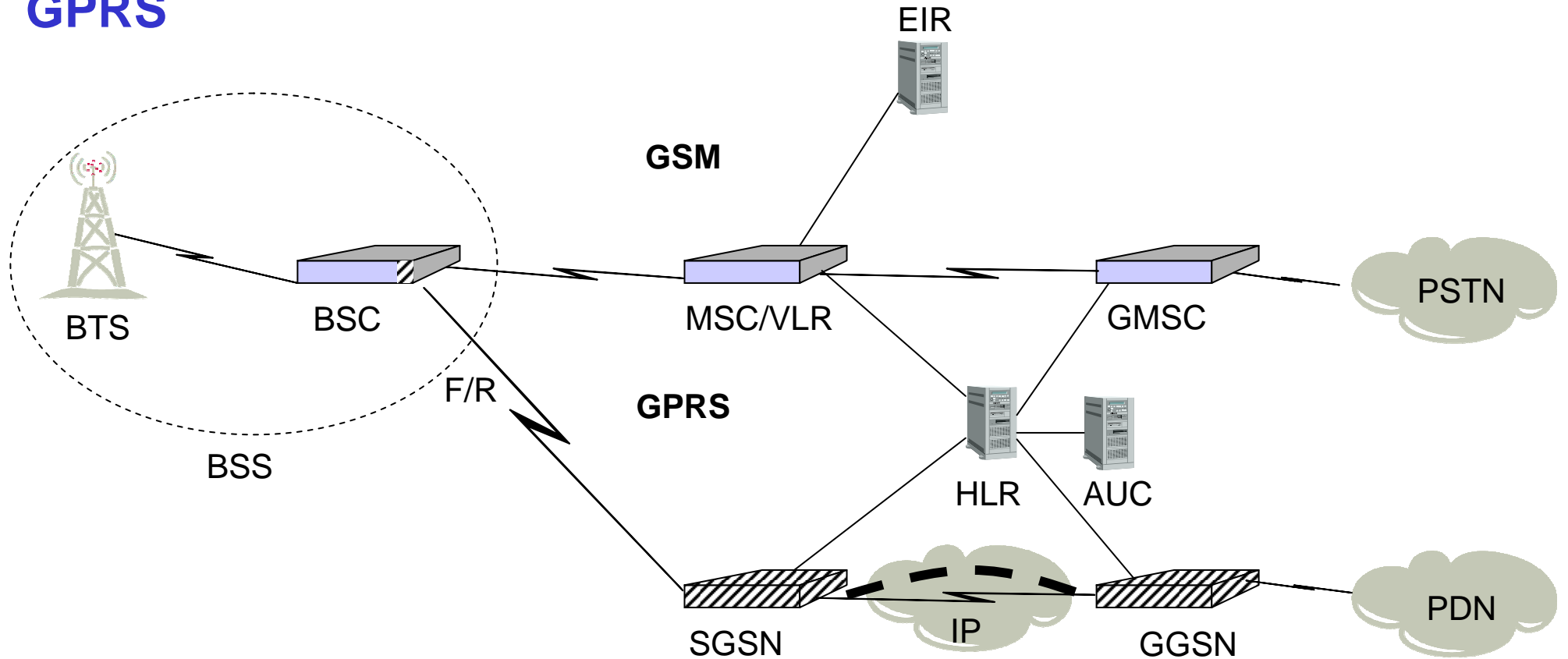


Data rate: 9,6 (14,4) kb/s
Circuit switched (Packet in GPRS)
QoS guarantee

Appl
TCP/UDP
IP
PPP
GSM

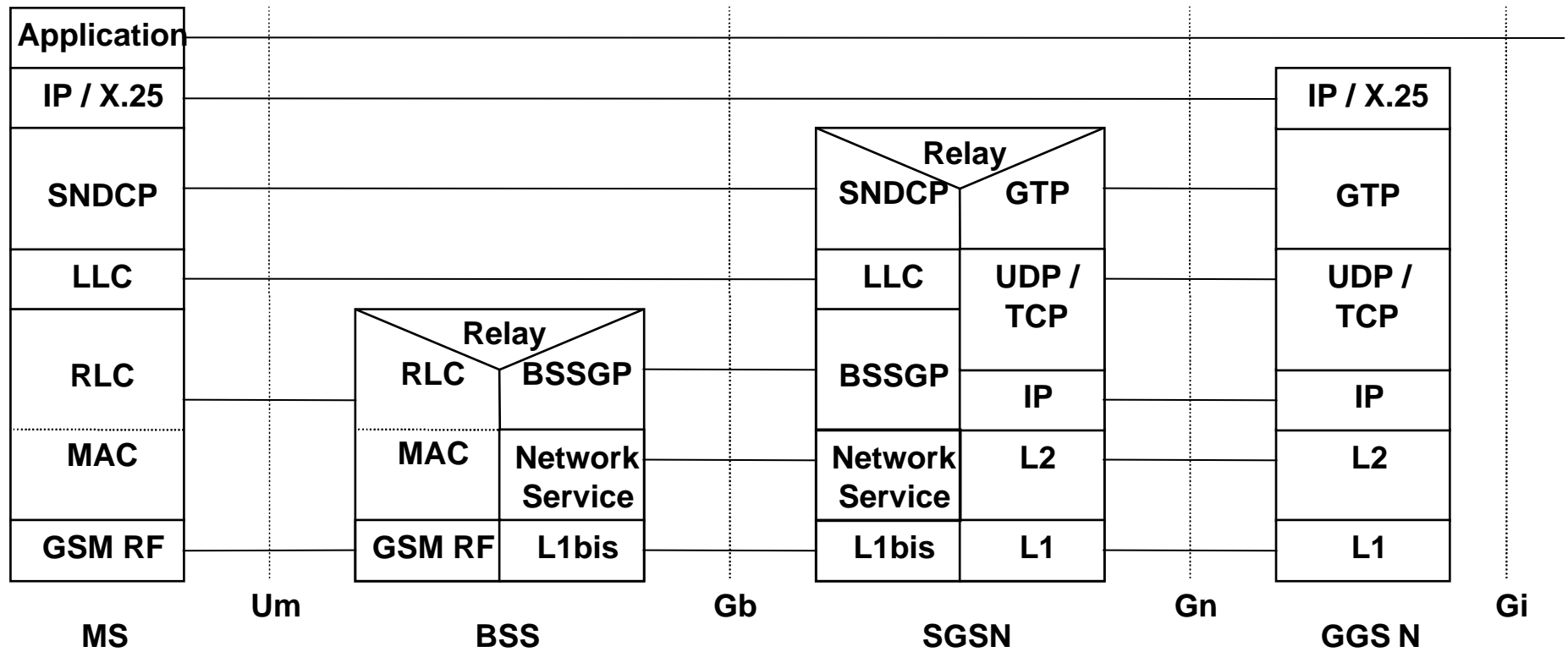
PPP	Point-to-Point Protocol
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GPRS



GGSN	Gateway GPRS Support Node
GPRS	General Packet Radio Service
PDN	Packet Data Network
PCU	Packet Control Unit
SGSN	Serving GPRS Support Node

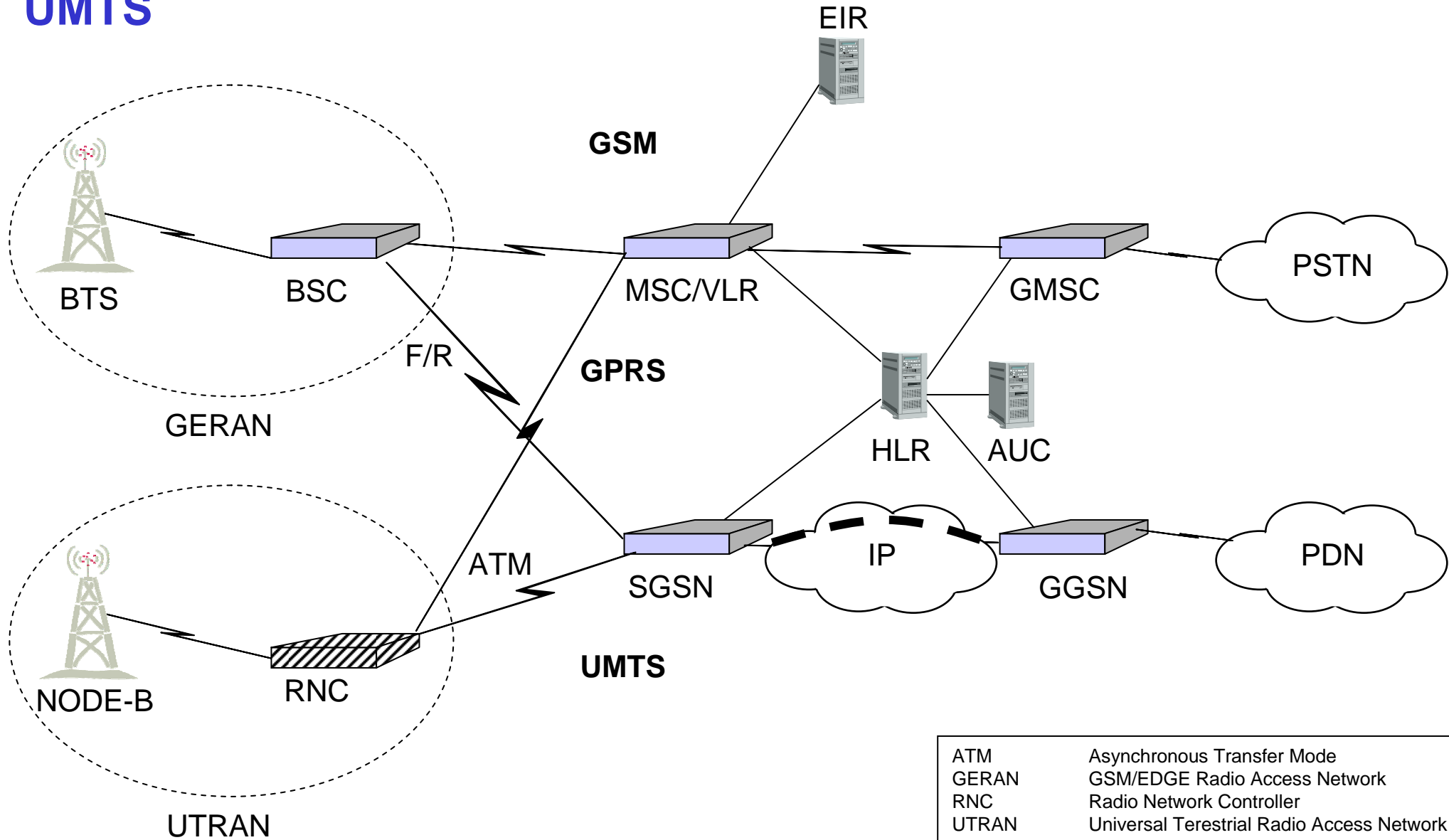
The GPRS Transmission Plane



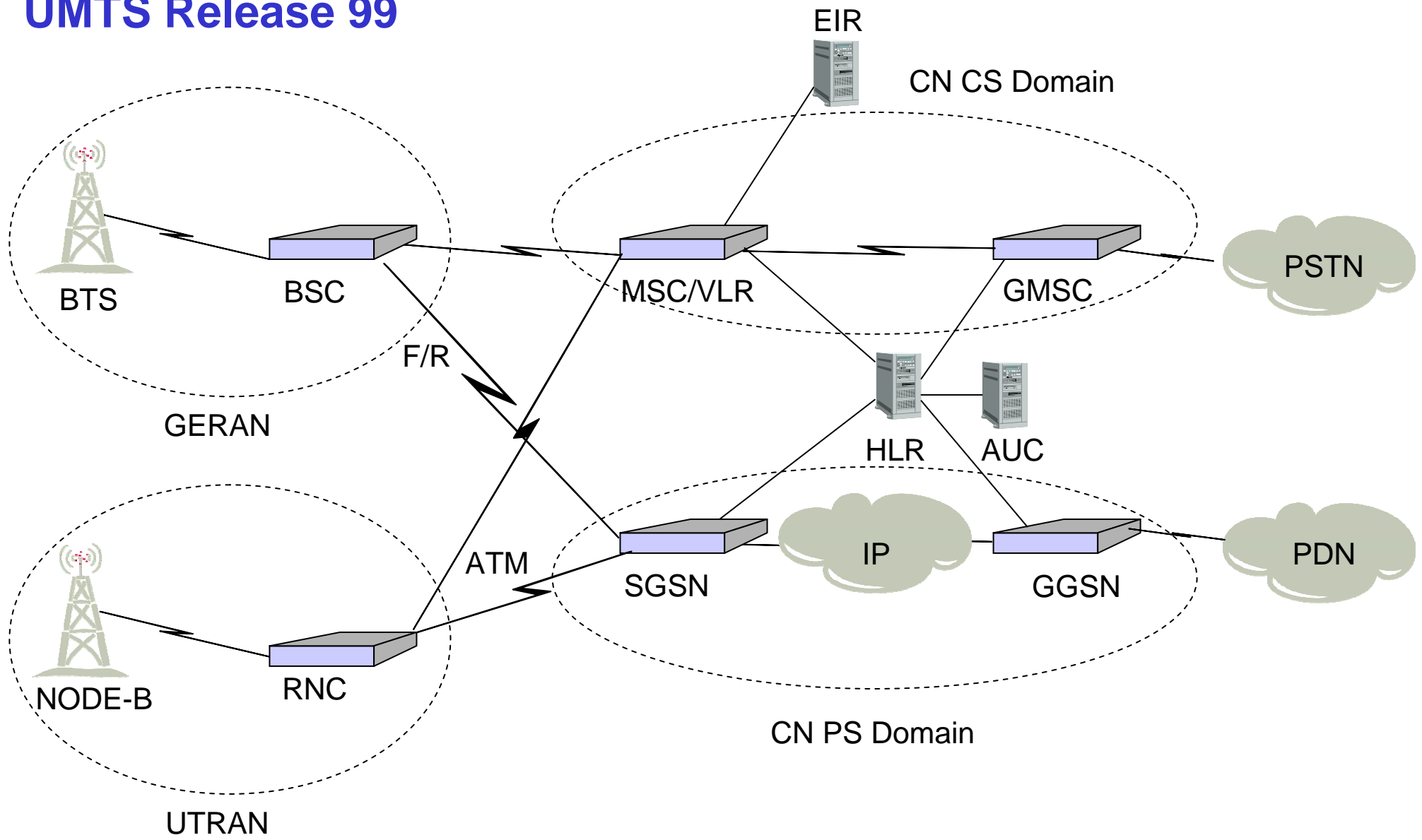
UMTS

- **Based on packet and circuit switching**
- **Shared resource**
- **Made for data communication**
- **Data rate up to 2 Mbit/s**
- **New air interface and radio access network**

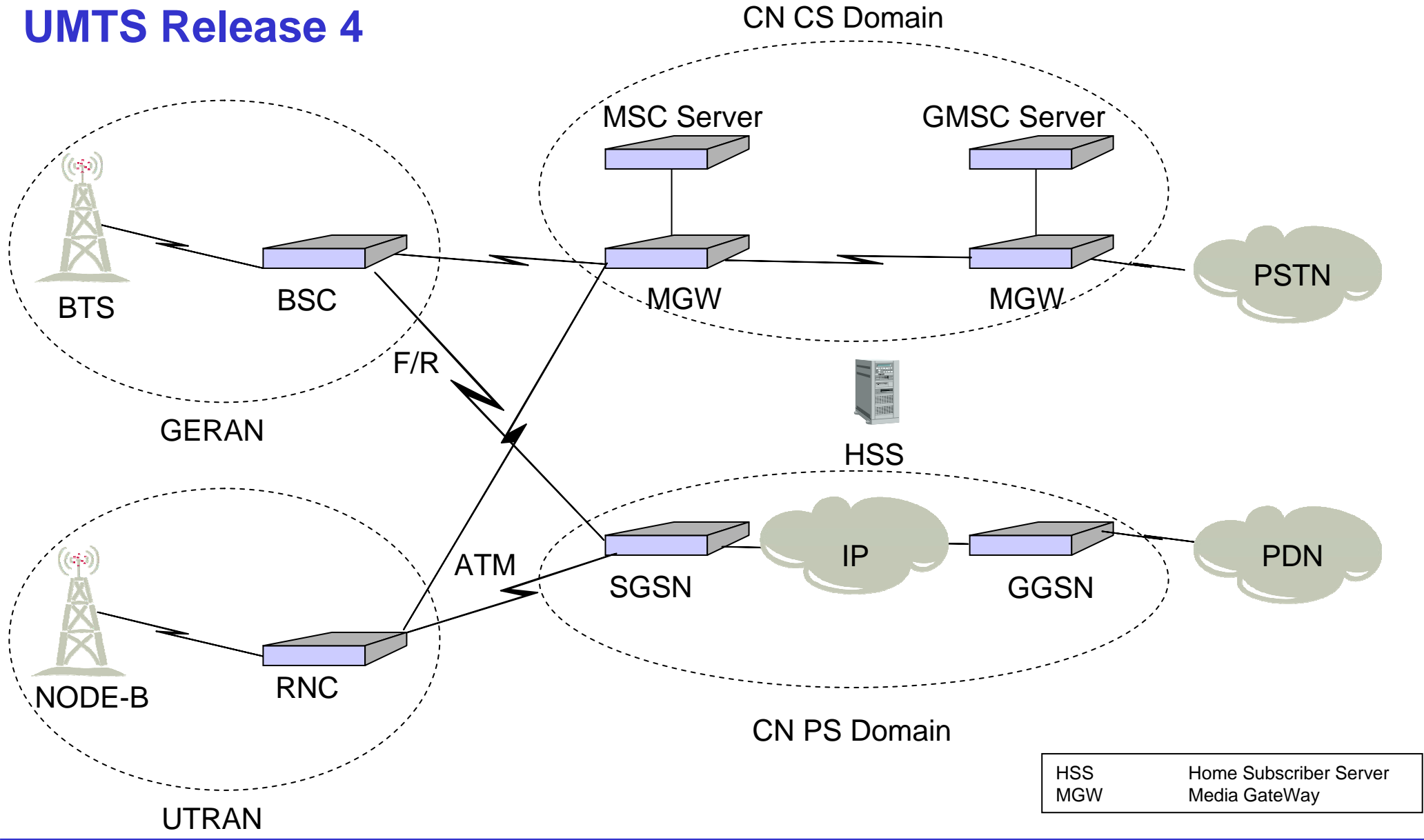
UMTS



UMTS Release 99

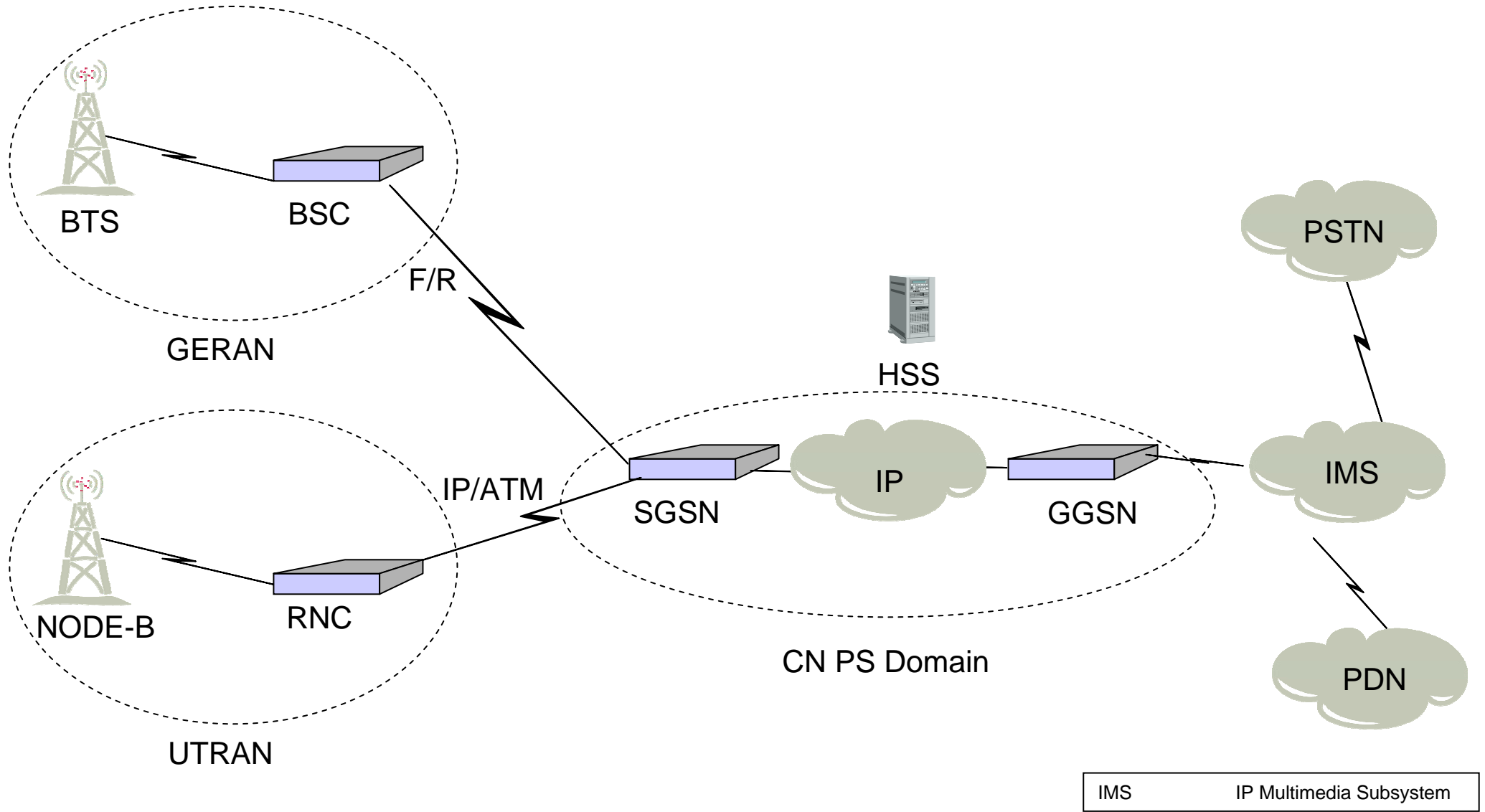


UMTS Release 4



HSS	Home Subscriber Server
MGW	Media GateWay

UMTS Release 5 (All IP)



IMS	IP Multimedia Subsystem
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